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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: Mon May 21 13:30:56 EDT 2007

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Application No: 10589389

Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-18 12:21:30.393

Finished: 2007-05-18 12:21:31.603

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 210 ms

Total Warnings: 25

Total Errors: 0

No. of SeqIDs Defined: 30

Actual SeqID Count: 30

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
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W 213	Artificial or Unknown found in <213> in SEQ ID (20)
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W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
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Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Nakaita, Yasukazu
Tsuchiya, Youichi

<120> A method for detecting and determining lactic acid bacterium

<130> 294857US0PCT

<140> 10589389

<141> 2007-05-18

<150> 10/589389

<151> 2006-08-15

<150> PCT/JP05/02331

<151> 2005-02-16

<150> JP 2004-040381

<151> 2004-02-17

<160> 30

<170> PatentIn version 3.3

<210> 1

<211> 1565

<212> DNA

<213> Lactobacillus hexosus

<220>

<221> source

<222> (1)..(1565)

<223> strain="SBC8050"

<400> 1

ttggagagtt tgatcctggc tcaggacgaa cgctggcggc gtgcctaata catgcaagtc 60

gaacgcacag atattaacag aagctgcttg cagtggaagy taattgatgt gagtggcgga 120

cgggtgagta acacgtgggt aacctacca aaagtggggg ataacatttg gaaacagatg 180

ctaataccgc ataatttaag tgaccacatg gtcacttaat gaaagatggy ttcggctatc 240

acttttgat ggacccgcgg cgtattagct agttggtggg ataacggcct accaaggcga 300

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tcctacggga ggcagcagta gggaatcttc cacaatggac gaaagtctga tggagcaacg 420

ccgcgtgagt gaagaagggt ttcggatcgt aaaactctgt tgttggagaa gaacagggac 480

tagagtaact gttagtccta tgacggtatc caaccagaaa gccacggcta actacgtgcc 540

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gtagatatat	ggaagaacac	cagtggcgaa	ggcggtctctc	tggtctgtaa	ctgacgctga	780
ggctcgaaaag	tatggggagc	gaacaggatt	agataccctg	gtagtccata	ccgtaaacga	840
tgaatgctaa	gtgttgagg	gtttccgccc	ttcagtgtctg	cagctaacgc	attaagcatt	900
ccgcctgggg	agtacgaccg	caagggtgaa	actcaaagga	attgacgggg	gcccgcacaa	960
gcggtggagc	atgtggttta	attcgaagct	acgcgaagaa	ccttaccagg	tcttgacatc	1020
ctttgaccac	tgtagagata	cagctttccc	ttcggggaca	aagtgcacag	tggtgcatgg	1080
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agcacgccgc	ggtgaatacg	ttcccggggc	ttgtacacac	cgcccgtcac	accatgagag	1440
tttgtaacac	ccgaagccgg	tggggtaacc	tctatgagga	gctaaccgtc	taaggtggga	1500
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tcctt						1565

<210> 2
 <211> 517
 <212> DNA
 <213> *Lactobacillus hexosus*

<220>
 <221> source
 <222> (1) .. (517)
 <223> strain="SBC8050"

<400>	2	
cagttctgtg	tttcatggg	gttgggtgctt cagtcgttaa cgctttgtct agccaattaa 60
acgttgaggt	ccttaaagaa	ggaaaacgct actatatgga tttcaagcgc ggtaaagtta 120
atactgagct	taaggttagc	ggtacaattc cagaacatga acacggcaca attgttcatt 180
tttggcctga	tcatgatatt	tttagggaaa caaccgttta tgatattaaa attttaacaa 240
cgcgaattcg	tgagttggcc	tttttgaata agggtttacg aattagcatt gaagatttac 300

gtcctgagaa accgaccaaa gaagttttcc actatgaagg tggcattaag agttacgttg	360
agtatttaga caacggtaag cacgatcttt ttccagagcc aatttacgtg gaaggtgacg	420
aaaagggaat taaggttgaa gttgctttac aatacactga cgattaccac actaacttga	480
tgaccttcgc caataatatt catacctatg aagtgga	517

<210> 3
 <211> 1526
 <212> DNA
 <213> *Lactobacillus pseudocollinoides*

<220>
 <221> source
 <222> (1)..(1526)
 <223> strain="SBC8057"

<400> 3	
tgatcctggc tcaggatgaa cgctggcggc gtgcctaata catgcaagtc gaacgcatcc	60
cgttaaatga agtgcttgca cggattttta catcggatga gtggcgaact ggtgagtaac	120
acgtgggtaa cctgcccaga agcaggggat aacacttgga aacaggtgct aataccgtat	180
aacaacaaaa accgcatggt ttttgtttga aagggtggtt cggctatcac ttctggaagg	240
acccgcggcg tattagctag ttggtggagt aacggttcac caaggcaatg atacgtagcc	300
gacctgagag ggtaatcggc cacattggga ctgagacacg gcccaaactc ctacgggagg	360
cagcagtagg gaatcttcca caatggacga aagtctgatg gagcaacgcc gcgtgagtga	420
agaagggtttt cggatcgtaa aactctgttg ttgaagaaga acacgtttga gagtaactgt	480
tcagacgttg acggtattca accagaaagc cacggctaac tacgtgccag cagccgcggt	540
aatacgtagg tggcaagcgt tatccggatt tattgggcgt aaagcgagcg caggcggtta	600
cttaagtctg atgtgaaagc cttcggctta accggagaag tgcacggaa actgggtaac	660
ttgagtgcag aagaggacag tggaaactcca tgtgtagcgg tgaaatgcgt agatatatgg	720
aagaacacca gtggcgaagg cggctgtctg gtctgtaact gacgctgagg ctcgaaagca	780
tgggtagcga acaggattag ataccctggg agtccatgcc gtaaacgatg aatgctaggt	840
gttgaggagg ttccgccctt cagtgcgcga gctaacgcat taagcattcc gctggggag	900
tacgaccgca aggttgaaac tcaaaggaat tgacgggggc ccgcacaagc ggtggagcat	960
gtggtttaat tcgaagctac gcgaagaacc ttaccaggtc ttgacatact gtgctaacct	1020
aagagattag gcgttcctt cggggacgca gatacagggt gtgcatggct gtcgtcagct	1080

cgtgtcgtga gatgttgggt taagtccgc aacgagcgca acccttattg tcagttgcca	1140
gcatttagtt gggcactctg gcgagactgc cggtgacaaa ccggaggaag gtggggatga	1200
cgtcaagtca tcatgccct tatgacctgg gctacacacg tgctacaatg gatggtacaa	1260
cgagttgcga actcgcgaga gcaagctaata ctcttaaagc cattctcagt tcggactgta	1320
ggctgcaact cgctacacg aagtcggaat cgctagtaat cgcgatcag catgccgcgg	1380
tgaatacgtt cccgggcctt gtacacaccg cccgtcacac catgagagtt tgcaacaccc	1440
aaagtcggtt cggtaacctt cgggagccag ccgcctaagg tggggcagat gattagggtg	1500
aagtcgtaac aaggtagccg taggag	1526

<210> 4
 <211> 484
 <212> DNA
 <213> *Lactobacillus pseudocollinoides*

<220>
 <221> source
 <222> (1)..(484)
 <223> strain="SBC8057"

<400> 4	
ctggtggtct gcatggtgtg gggcatccgt gtgaacgcgc tgtctccgaa ctggacgtta	60
aggtcgttcg ggacggcaag cgggtactaca tggactttgc gtacggccac gttaagaccc	120
caatgaaggt cattgacgaa gggttaccag aaaacattcg cgggaccacg gtgcacttct	180
tgccggaccc agatattttc cgggaaacca ctacgtacga cattaagatc ctgaccaccc	240
ggatccgcga gctggctttc ttaaacaagg gtctgcgcac tactatccgt gatgagcggc	300
ctgacgagcc aactgaacaa tcctttatgt acgaaggcgg gatccgtcat tacgttgaat	360
atttaaataa aaacaaggat gtcattttcc ctgaaccaat ctatgttgaa ggtgaagaaa	420
agggcatcac ggttgaagtt gcgttgacgt ataccgacga ctaccactca aacctgttga	480
cgtt	484

<210> 5
 <211> 330
 <212> DNA
 <213> *Pediococcus damnosus*

<220>
 <221> source
 <222> (1)..(330)

<223> strain="SBC8023"

<220>

<221> misc_feature

<222> (19)..(19)

<223> n strands for any base

<400> 5

ttattgtgcc tgtcaaatnc aagttcttga aggtttggaa gcagttagaa aacgtcccgg 60

aatgtatatt ggggcaacaa gtgcccaagg actccatcat ttagtttggg aaattattga 120

taacggaatt gatgaagctt tagccggggt tgcggataaa atcgatgtga cggttgaaaa 180

agataatagc attacggttt ttgataatgg ccgaggaatt ccagttggaa tccaggctaa 240

gactggtaaa ccagccctag agacagtttt cacaattttg catgccggtg gtaagtttgg 300

cggcggcggt tataaagttt caggtgggta 330

<210> 6

<211> 21

<212> DNA

<213> Artificial

<220>

<223> a primer for L. hexosus

<400> 6

gcggtaaagt taatactgag c 21

<210> 7

<211> 20

<212> DNA

<213> Artificial

<220>

<223> a primer for L. hexosus or L. pseudocollinoides

<400> 7

atkccctttt cktcaccttc 20

<210> 8

<211> 18

<212> DNA

<213> Artificial

<220>

<223> a primer for L. pseudocollinoides

<400> 8

gttcgggacg gcaagcgg 18

<210> 9
<211> 17
<212> DNA
<213> Artificial

<220>
<223> a primer for *P. damnosus*

<400> 9
aagttcttga aggtttg 17

<210> 10
<211> 16
<212> DNA
<213> Artificial

<220>
<223> a primer for *P. damnosus*

<400> 10
tcggccatta tcaaaa 16

<210> 11
<211> 21
<212> DNA
<213> Artificial

<220>
<223> a primer

<400> 11
tggttaaata ccgtcaacc t 21

<210> 12
<211> 20
<212> DNA
<213> Artificial

<220>
<223> a primer

<400> 12
ggataccgtc actgcatgag 20

<210> 13
<211> 18
<212> DNA
<213> Artificial

<220>
<223> a primer

<400> 13

ttgaataaccg tcaacgtc

18

<210> 14
<211> 20
<212> DNA
<213> Artificial

<220>
<223> a primer

<400> 14
ccatgtggtc acttaaattc

20

<210> 15
<211> 19
<212> DNA
<213> Artificial

<220>
<223> a probe

<220>
<221> modified_base
<222> (1)..(1)
<223> LC Red640 labelled

<220>
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<222> (19)..(19)
<223> phosphorylated

<400> 15
cgccactcgc ttcattgtt

19

<210> 16
<211> 20
<212> DNA
<213> Artificial

<220>
<223> a probe

<220>
<221> modified_base
<222> (1)..(1)
<223> LC Red640 labelled

<220>
<221> modified_base
<222> (20)..(20)
<223> phosphorylated

<400> 16
cgccacccac atcaattaac

20

<210> 17
<211> 20
<212> DNA
<213> Artificial

<220>
<223> a probe

<220>
<221> modified_base
<222> (1)..(1)
<223> LC Red705 labelled

<220>
<221> modified_base
<222> (20)..(20)
<223> phosphorylated

<400> 17
cgccactcac tttatagttg

20

<210> 18
<211> 18
<212> DNA
<213> Artificial

<220>
<223> a probe

<220>
<221> modified_base
<222> (1)..(1)
<223> LC Red705 labelled

<220>
<221> modified_base
<222> (18)..(18)
<223> phosphorylated

<400> 18
cgccactcat ccgatgtt

18

<210> 19
<211> 22
<212> DNA
<213> Artificial

<220>
<223> a probe

<220>
<221> modified_base
<222> (22)..(22)
<223> FITC labeled

<400> 19
ggttaccac gtgttactca cc 22

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<212> DNA
<213> Artificial

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<223> a probe

<220>
<221> modified_base
<222> (23)..(23)
<223> FITC labelled

<400> 20
gtggaagggtg aagaaaaggg aat 23

<210> 21
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<213> Artificial

<220>
<223> a probe

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<221> modified_base
<222> (1)..(1)
<223> LC Red705 labelled

<220>
<221> modified_base
<222> (24)..(24)
<223> phosphorylated

<400> 21
ggttgaagtt gctttacagt acac 24

<210> 22
<211> 21
<212> DNA
<213> Artificial

<220>

<223> a probe

<220>

<221> modified_base

<222> (21)..(21)

<223> FITC labelled

<400> 22

cttgtggttag accctcttca a

21

<210> 23

<211> 18

<212> DNA

<213> Artificial

<220>

<223> a probe

<220>

<221> modified_base

<222> (1)..(1)

<223> LC Red640 labelled

<220>

<221> modified_base

<222> (18)..(18)

<223> phosphorylated

<400> 23

gtgcattggc gtcttcac

18

<210> 24

<211> 19

<212> DNA

<213> Artificial

<220>

<223> a primer

<400> 24

cgagcttccg ttgaatgac

19

<210> 25

<211> 21

<212> DNA

<213> Artificial

<220>

<223> a primer

<400> 25

ggtcattcgt ggcgga a

21

<210> 26

<211> 21

<212> DNA

<213> Artificial

<220>

<223> a primer (GYPF)

<400> 26

ggwtayaarg twtcwgggtg t

21

<210> 27

<211> 18

<212> DNA

<213> Artificial

<220>

<223> a primer (GYPR)

<400> 27

tcatgygtwc accttc

18

<210> 28

<211> 23

<212> DNA

<213> Artificial

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<223> a primer (GP1-F)

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<222> (7)..(7)

<223> n strands for any base

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<221> misc_feature

<222> (12)..(12)

<223> n strands for any base

<220>

<221> misc_feature

<222> (14)..(14)

<223> n strands for any base

<220>

<221> misc_feature

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<213> Artificial

<220>
<223> a primer (GP1-R)

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accaccwgaw acytrrtawc c 21

<210> 30
<211> 21
<212> DNA
<213> Artificial

<220>
<223> a universal primer 16S rRNA gene

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